OC

Quality Control

Memo?

1406/69 James

w/o: 8	3092	WORK ORDE	R CHANGES	the state of				
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: D212-664-101TRN PAR #: ____ Fault Category: X-tube

NCR: Yes) No DQA: Date: 12/06/11

Resolution: LAR ON in

Disposition: We are

QA: N/C Closed: _

NCR: 17	78211	W	ORK OR	DER NON-CONFORMANCE	(NCR)	V		<u> </u>
		Description of NC		Corrective Action Section B	Verification	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
12.16.64	160	One cuff is oval. Small dim is 2.793. LARGE din is 2.738	12.4	Acceptable. ORTENT LARGE DIM TO BE UP/DOWN IN BENDER	12-6-4	JW 12-6-4	A . 46.09	77/68/by
3								i.

May-30-12 3:43:31 PM Item ID: D212-664-101TRN Accept *N900040100 **Revision ID:** Crosstube Turning Detail Item Name: **Start Date:** Start Qty: 1.00 12/04/2012 Cust Item ID: · **Required Date: 26/04/2012** Req'd Qty: 1.00 **Customer:** Reference: **Approvals: Process Plan:** Date: **Tooling:** Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool# Work Center ID. **Description Run Hours** 120 0.00 MORI SEIKI CNC LATHE LARGE *120* Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large 1-Turn second side as per Folio FA113 2-Blend transition lines only, **do not sand whole tube**: *Use mill bastard file, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit.

Run Start Stop

Setup Start

Reject

Qty

Accept

Qty

Plan

Code

Reject Insp.

Number Stamp

3-Remove sand and plugs

FOLIO REV: DWG REV:

130

QC1- Inspect dimensions to dimension sheet

Memo

0.00

120 QC

0.00

Quality Control

12/06/03 9nan il 12/06/03

W/O:	.		·	WORK OR	DER CHANGE	ES						
DATE	STEP		PRO	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No);		PAR #:	Fault Category:		NCR: Yes	No DQ	A:	Date: _	<u></u>		
	R	Resolution:		Disposition: `		QA: N/C	Closed:		Date: _			
NOD.				WORK ORDER NON-CONFORMANCE (NCR)								

NCR:		W	DER NON-CONFORMANCE (NCF	R)		,	
		Description of NC		Corrective Action Section B	Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Sign 8 Chief Eng Date	Section C	Chief Eng	Approval QC inspector
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May-30-12 3:43:31 PM

Item ID:

D212-664-101TRN

12/04/2012

Accept

N900040100

Setup Start

Revision ID:

Item Name: **Start Date:**

Reference:

Crosstube Turning Detail

Cust Item ID:

Customer:

Required Date: 26/04/2012

Approvals:

Process Plan:

Date:____

Tooling:

Date:

Run

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Stop

Sequence ID/ **Work Center ID** 140

140

OC Quality Control

Memo

QC8- Inspect parts - second check

Start Qty: 1.00

Req'd Qty: 1.00

Operation

Description

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject

Reject Insp. Number Stamp

145

145

* Crosstubes

Memo

0.00

0.00

Crosstubes

GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY.

150

Crosstubes Chemical Conversion

0.00

150

HandFXtube

Hand Finishing Crosstubes

Memo

MO 12-6-4

0.00

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W/O:			WO	RK ORDER CHANGE	S				
DATE	STEP	PROC	CEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:							
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NCR:		W	ORK ORDE	ER NON-CONFORMAN	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC Inspector
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180

Quality Control

QC

Page 4

May-30-12 3:43:31 PM Item ID: D212-664-101TRN Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 12/04/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 26/04/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: Approvals: Date: **Tooling:** Date: SPC (Y/N): Date: Sequence ID/ Operation Tool # Plan Set Up/ Tool ID Reject Accept Reject Insp. Work Center ID Description **Run Hours** Qty Code **Qty** Number Stamp 160 QC7-Inspect Chemical Conversion Coat 0.00 *160* OC 0.00 Memo Quality Control 170 0.00 II 12-6-4 Packaging *170* Packaging 0.00 Memo Packaging Identify and Stock in kanban rack Location: 180 QC21- Final Inspection - Work Order Release 0.00

0.00

Memo

Modes

Dail Aci									
W/O:			W	ORK ORDER CHANGI	ES				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Disposition	on: '	_ QA: N/C CI	sed:		Date: _	
NCR:		`	WORK ORD	DER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC	ttatt	Corrective Action Section	on B Sign &		cation	Approval	Approval
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Page 1

Work Order ID: 83092

D212-664-101TRN

Parent Item Name: Crosstube Turning Detail

83092 *D212-664-101TRN*

Start Date: 12/04/2012

Required Date: 26/04/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:A 08-03-06 new issue DD verified by:ec IPP Rev B 08.04.02 removed Polish EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item		Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6005-128		Manufactured	No			120	Each	25.0000	1	 1			
D6005-12	28								**				
<i>J</i> ·				Location		<u>Loc (</u>	<u>Oty</u>	Loc Code					
			- D	LG	69796		25 25		M-van		- ,	. رم	2-6-

W/O:			WORK ORDE	R CHANGES				
DATE	STEP	XP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	· ·		PAR #: Fault Category: Disposition:	NCR: Yes				· · · · · · · · · · · · · · · · · · ·

NCR:		W	ORK OR	DER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	83092
Description: Crosstube Assembly (205/212/412 High Fwd)	Part Number:	D212-664-141
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article	Prototype
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	spection Sheet awing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.200	+/-0.010	.200	-		rern	cure-of
	R0.063	+/-0.010	.063			R6	
	2.740	+0.005/-0.000	2.741			Vern	COVC-OB
	. , 5.097	+/-0.030	5.097			~ • 1	
	2.304	+0.005/-0.000	2.765				
	2.340	+0.005/-0.000	2.343	/			
EA	2.398	+0.005/-0.000	2.403			·	
SIDE	. 2.448	+0.005/-0.000	2.453				
	2.498	+0.005/-0.000	2.503	_			
	2.549	+0.005/-0.000	2.554			. (
	2.599	+0.005/-0.000	2604				
	2.671	+0.005/-0.000	2.676				
	2.701	+0.005/-0.000	2.703			. 1	
	0.200 •	+/-0.010	.200			vern	CWC-08
	R0.063	+/-0.010	:063		1 1000	RG	
	2.740	+0.005/-0.000	2.732	_	1/	vern	CWC-08
	, 5.097	+/-0.030	5.097.			1	
	2.304	+0.005/-0.000	2.307.				
_	2.340	+0.005/-0.000	2.343				
E B	2.398	+0.005/-0.000	2.403				
SIDE	2.448	+0.005/-0.000	2.453				
	2.498	+0.005/-0.000	2.503				
	2.549	+0.005/-0.000	2.554				
	2.599	+0.005/-0.000	2.603				
	2.671	+0.005/-0.000	2.676				
	2.701	+0.005/-0.000	2.705			<u> </u>	
. [126.514	+/-0.020	126.514			texpl	18ATE 16-3

Measured by: KC AMAL Audited by: Appen PTO Prototype Approval: N/A

Date: 12-6-4 Date: N/A

Rev	Date	Change	Revised by	Approved
Α	05.04.27	New Issue (P/O D412-664-101)	KJ/JLM	
В	06.03.15	Tolerance revised for 5.097 per Dwg Rev update	KJ/JLM	
C ·	07.05.28	Dwg Rev updated	KJ/JLM ,	11
D	10.02.02	Dimension 126.514 was 126.51	KJ 🗫	NA NA

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W/O:		WORK ORDER CHANGES												
DATE	STEP	PRO	CEDURE CHA	NGE		Ву	Date	Qty	Approvai Chief Eng / Prod Mgr	Approval QC Inspector				
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			Disposition: ` QA											
NCR:		V	WORK ORDER NON-CONFORMANCE (NCR)											
DATE	STEP	Description of NC	Corrective Action Section B			Ver		ation	Approval	Approval				
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Item	Qty -141	Qty -141B	Part Number	Description
1	X		D212-664-141	CROSSTUSE ASSEMBLY (205/212/412 HIGH FWD)
2		Х	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

1) MATERIAL: MANUFACTURED FROM D6005-128

FINISHED LENGTH = 126.514±0.020

FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX.

IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS

WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664)

D212-664-141B = 33.6 lbs (PER IIN-D212-664)

PART IS SYMMETRIC ABOUT CENTERLINE. RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 83092 MLS 12/05/31

REMOVED FROM WIDER REVIEW PER UNDER REVIEW SCN #11-614

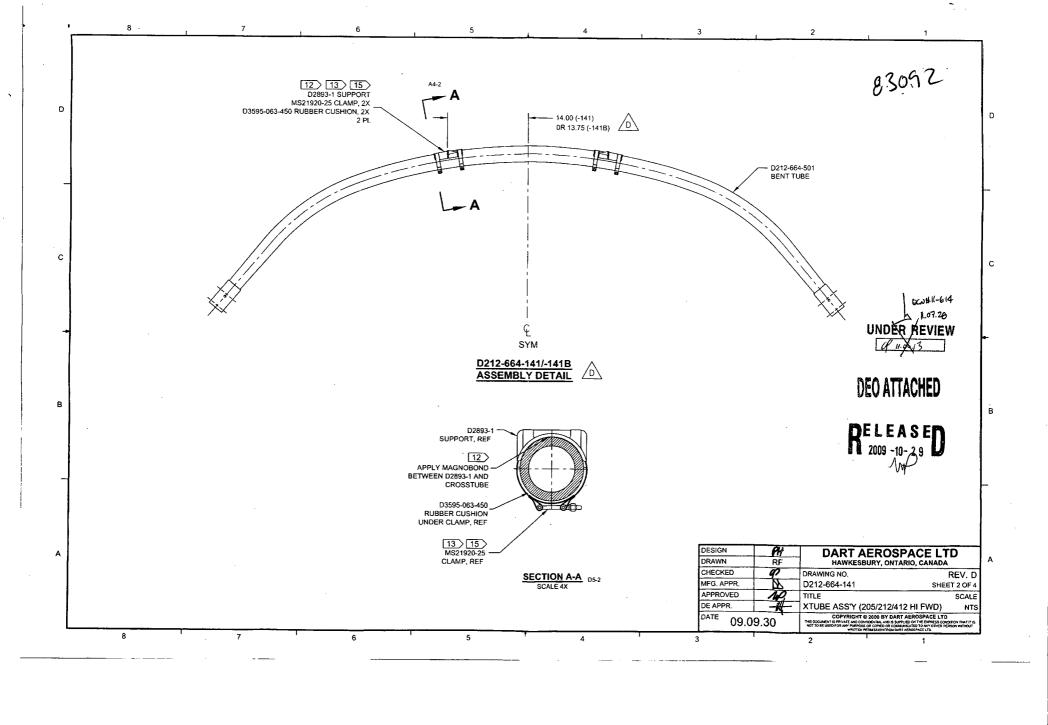
DEO ATTACHED

D	REFORMATIREVISE GENERAL NOTES/PART LIST: REPORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -1418 (2N B4-2, D4-2); REMOVED REF & ADD TOLERANCES (2N B4-3, C6-3, C6-3 & 86-3); RELOCATED FLAG #69 PER PAR 08-046 (2N 84-3); MOVED TURNING DETAIL & UPDATED TOLERANCE, TO SHEET 4 REMOVE -851 ABRASION STRIP; ADD MAGNOBOND									
С			ASION STRIP; ADD MAGNOBOND VERSE CLAMPS	PH	07.03.08					
В	ADD H SKIDTI	OLES FOR C JBES	PH	05.02.04						
Α	NEW	SSUE		PH	00.12.12					
REV.	Ĺ		DESCRIPTION	BY	DATE					
DESIGN		PH	DART AEROSP	ACE	LTD					
DRAWN		RF	HAWKESBURY, ONTARI							
CHECK	D	P	DRAWING NO.		REV. D					
MFG. AF	PR.	N	D212-664-141	s	HEET 1 OF 4					
APPRO	PPROVED NO TITLE S									
DE APP	R.	-11-	XTUBE ASS'Y (205/212/412	XTUBE ASS'Y (205/212/412 HI FWD) NTS						
DATE 09.09.30 COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVILED AND SEPAND ON THE DIFFERS CONCINDING THAT IT IS NOT TO THE COPYRIGH AND AND THE OWN THE OWN THAT IS NOT TO THE COPYRIGH AND AND THE OWN THE OWN THAT IS NOT TO THE COPYRIGH AND AND THE OWN THE OWN THAT IS NOT TO THE COPYRIGHT OF THE OWN THE OWN THE OWN THAT IS NOT THE OWN THE OWN THE OWN THE OWN THE OWN THAT IS NOT THE OWN THE										

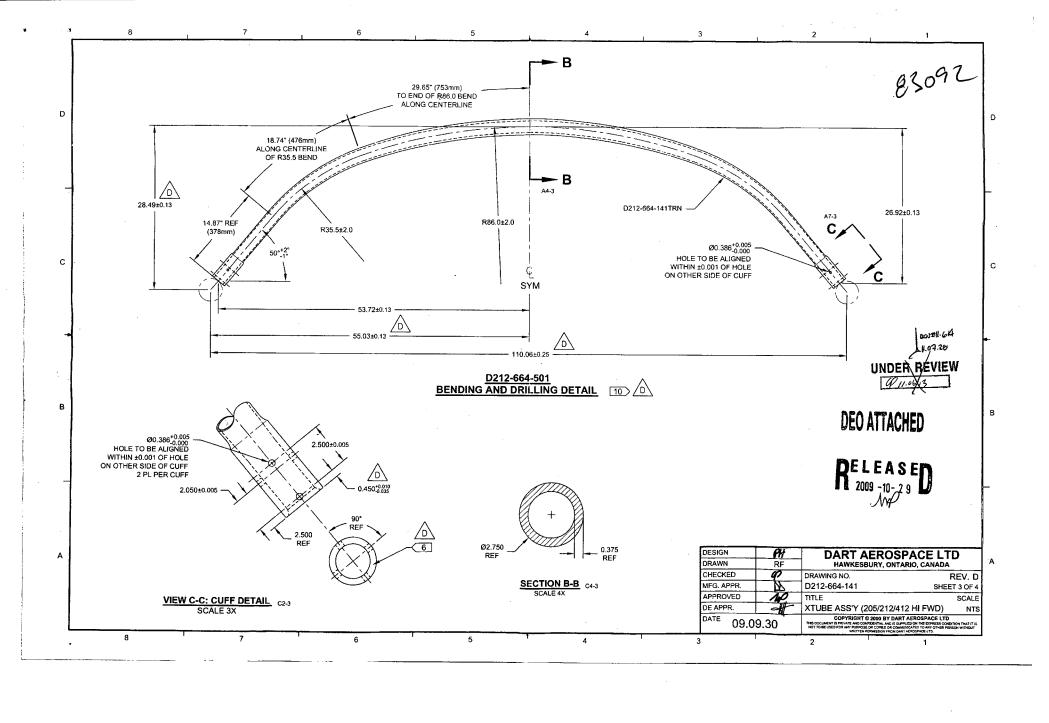
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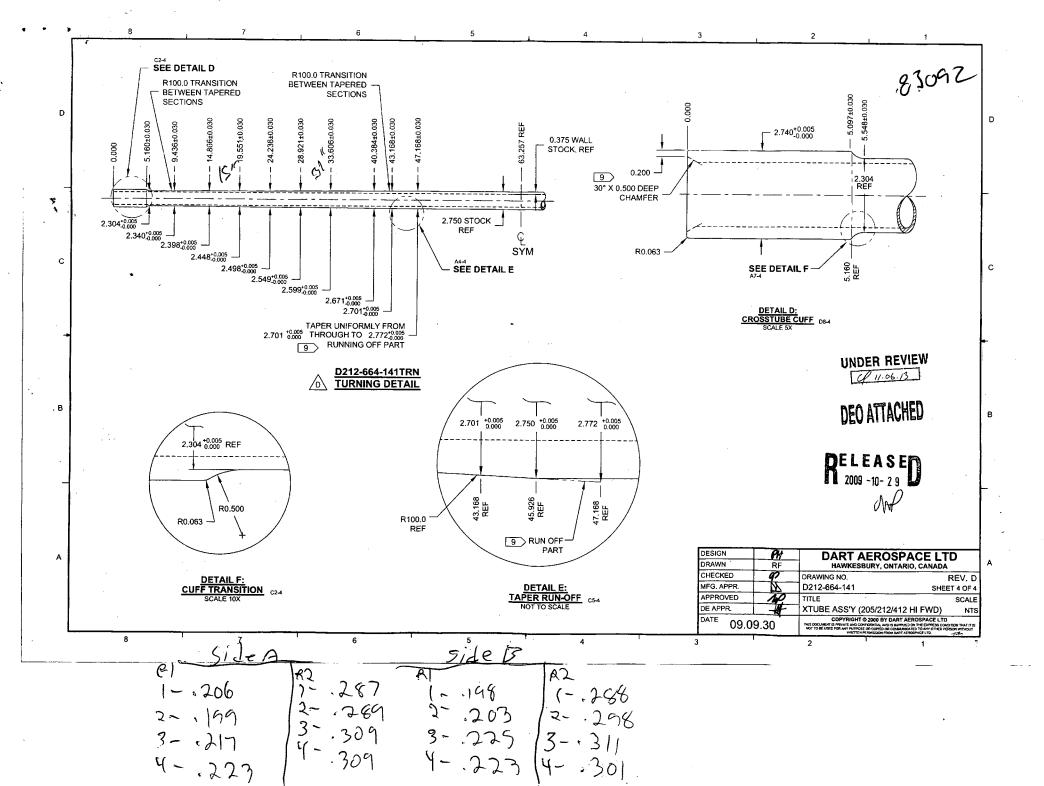
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W/O:		WORK ORDER CHANGES											
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Part No	:	PAR #:	Fault Categ	jory:	NC	R: Yes	No DQ	Date:					
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W/O:		WORK ORDER CHANGES												
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DRAWING NO.	TITLE	-	REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	XTUBE ASS	SY (205/212/41:	2 HI FWD)	ENGINEERING ORDER	D212-664-141-D-1	SHEET 1 OF 2	- NTS
DRAWN	<u> </u>	CHECKED	P	MFG. APPR.	APPROVED NA	DE APPR.	
DATE 11.0	4.07	DATE	11.07.11	DATE 11.04.12	DATE 11/54/12	DATE 11.04.12	

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

<u> IS:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

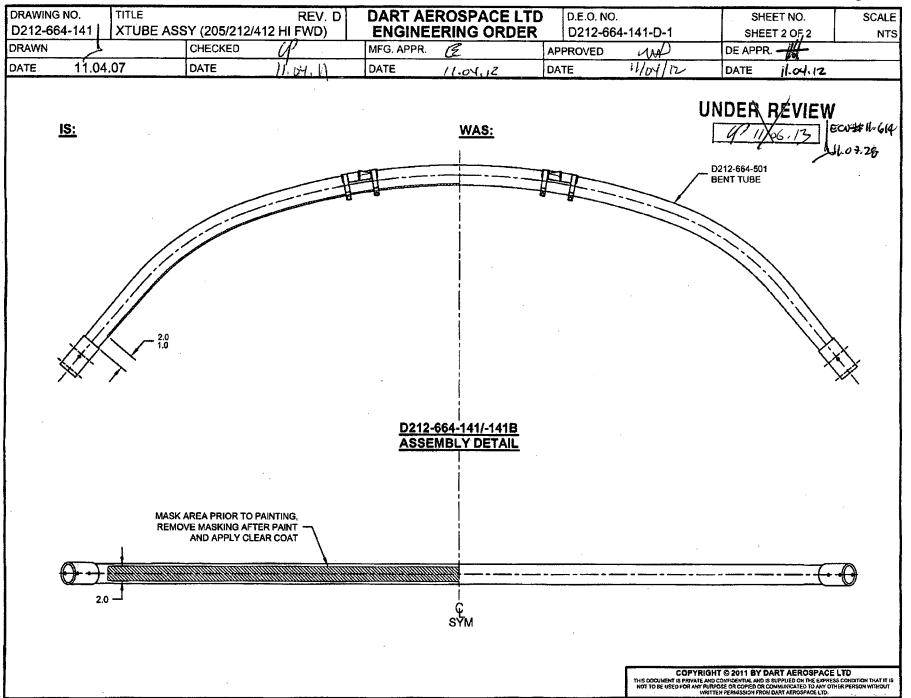
WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

Dart Ae	rospace	e Ltd							* * *						
W/O:			WORK ORDER CHANGES												
DATE	STEP	PROC	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
Part No	: :	PAR #:	Fault Cate	gory:N	CR: Yes	No DQ	A:	_ Date: _							
			Disposition:												
NCR:		W	ORK ORD	ER NON-CONFORMANC	E (NCR	1)									
	0750	Description of NC	Corrective Action Section B			Veritica			Approval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	1	ion C	Approval Chief Eng	QC Inspector						
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W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES							
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Dart No		DAD #· Fault Category: NC	P: Voc	No DO	\-	Date:				

Resolution: _____ Disposition: _____ QA: N/C Closed: _____

Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspecto			
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DRAWING NO.	TITLE REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>S	MFG. APPR.	APPROVED IN	DE APPR.	
DATE 11.07	15 DATE 11.07.20	DATE 11.07.21 D		DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

item	Qty -141	Qty -141B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
			·	ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT), APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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Part No:		PAR #:	Fault Category:	de de cale Comment	NCR: Yes No	DQA:	Date:	
	Resolution:		Disposition:		QA: N/C Closed	l:	Date:	

NCR:		W	ORK OR	DER NON-CONFORMANCE (NCR			
DATE	STEP	Description of NC	Corrective Action Section B Initial Action Description Sign &		Verification	Approval	Approval Qe inspector
		Section A	Initial Chief Eng	Action Description Sign & Date	Section C	Chief Eng	QC'Inspector
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